



## Sequence Listing

<110> Bayer Aktiengesellschaft  
<120> Anti-Kazlauskas-Lipases  
<130> LeA 35 991  
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<170> PatentIn version 3.1

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<222> (1)..(885)  
<223> bacterial

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Met Ala Gln Val Lys Ala Asn Gly Ile Thr Leu Glu Tyr Glu Glu Gln  
1 5 10 15

ggc cat cgc cac cat ccg tcc atg ctc ctc att atg ggc ctg ggc ggc 96  
Gly His Arg His His Pro Ser Met Leu Leu Ile Met Gly Leu Gly Gly  
20 25 30

cag tta atc gac tgg ccc gag gag ttc atc cgg ggg ctg gct gaa cga 144  
Gln Leu Ile Asp Trp Pro Glu Glu Phe Ile Arg Gly Leu Ala Glu Arg  
35 40 45

ggc ttc cgg gta atc tgt ttc gac aac cgc gac gcg ggg ctt tcg acg 192  
Gly Phe Arg Val Ile Cys Phe Asp Asn Arg Asp Ala Gly Leu Ser Thr  
50 55 60

aaa ctt gaa ggc gtg aaa aaa ccg aac att gcc cgg gta ttt ctc ctg 240  
Lys Leu Glu Gly Val Lys Lys Pro Asn Ile Ala Arg Val Phe Leu Leu  
65 70 75 80

gcg agc atg ggc cta aag ccc agg gtg cct tac acc ctc gac gac atg 288  
Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met  
85 90 95

gcc ctg gac acc gtg ggg ctg atg gat gcc ctg ggc att gag agc acc 336  
Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr  
100 105 110

cac gta gtt ggc gtc tcc atg ggc atg att gcg cag att cta ggg 384  
His Val Val Gly Val Ser Met Gly Gly Met Ile Ala Gln Ile Leu Gly  
115 120 125

gcg aag cac ggg gag cgg gtg aaa tcc ctt acc ctg atg att acc tcc 432  
Ala Lys His Gly Glu Arg Val Lys Ser Leu Thr Leu Met Ile Thr Ser  
130 135 140

tcc ggc aac ccc cgc atg ccg gcg ccc agg ccg cag gtg ctg caa aag 480  
Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys  
145 150 155 160

ttt atg cgg gtg ccc aag agc atg gat aag gaa gag tgg att aaa tac Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr 165 170 175	528
aac ttg gag ctt tta acc acc atc ggc agc ccc ggg ttg gac cgg gag Asn Leu Glu Leu Leu Thr Thr Ile Gly Ser Pro Gly Leu Asp Arg Glu 180 185 190	576
aag ctg gcc tta gac gtg agg aag agc ata gag cgg tgc ctt tgc ccc Lys Leu Ala Leu Asp Val Arg Lys Ser Ile Glu Arg Cys Leu Cys Pro 195 200 205	624
gaa ggc acg cag cgg cag ctg gca gcc atc ctg cag agc ggc agc agg Glu Gly Thr Gln Arg Gln Leu Ala Ala Ile Leu Gln Ser Gly Ser Arg 210 215 220	672
gtg aag ctg ctc cgg cgg atc gct gtc ccc acc ctg gtc atc agc ggg Val Lys Leu Leu Arg Arg Ile Ala Val Pro Thr Leu Val Ile Ser Gly 225 230 235 240	720
gcg gaa gat ccc ctc ctg ccg tac cag tgc ggc cgg gac att gcc gac Ala Glu Asp Pro Leu Leu Pro Tyr Gln Cys Gly Arg Asp Ile Ala Asp 245 250 255	768
cat atc ccg gga gcc cgc ttc gag ctc atc gag ggc atg ggg cac gac His Ile Pro Gly Ala Arg Phe Glu Leu Ile Glu Gly Met Gly His Asp 260 265 270	816
att ccc gag cgg cac atc ccc cgg ctg att gag ctc atc gcc ggg cac Ile Pro Glu Arg His Ile Pro Arg Leu Ile Glu Leu Ile Ala Gly His 275 280 285	864
gcc gcg gcc gcg gaa gct taa Ala Ala Ala Ala Glu Ala 290	885

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Gly His Arg His His Pro Ser Met Leu Leu Ile Met Gly Leu Gly Gly 20 25 30
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Gln Leu Ile Asp Trp Pro Glu Glu Phe Ile Arg Gly Leu Ala Glu Arg

35

40

45

Gly Phe Arg Val Ile Cys Phe Asp Asn Arg Asp Ala Gly Leu Ser Thr  
50 55 60

Lys Leu Glu Gly Val Lys Lys Pro Asn Ile Ala Arg Val Phe Leu Leu  
65 70 75 80

Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met  
85 90 95

Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr  
100 105 110

His Val Val Gly Val Ser Met Gly Gly Met Ile Ala Gln Ile Leu Gly  
115 120 125

Ala Lys His Gly Glu Arg Val Lys Ser Leu Thr Leu Met Ile Thr Ser  
130 135 140

Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys  
145 150 155 160

Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr  
165 170 175

Asn Leu Glu Leu Leu Thr Thr Ile Gly Ser Pro Gly Leu Asp Arg Glu  
180 185 190

Lys Leu Ala Leu Asp Val Arg Lys Ser Ile Glu Arg Cys Leu Cys Pro  
195 200 205

Glu Gly Thr Gln Arg Gln Leu Ala Ala Ile Leu Gln Ser Gly Ser Arg  
210 215 220

Val Lys Leu Leu Arg Arg Ile Ala Val Pro Thr Leu Val Ile Ser Gly  
225 230 235 240

Ala Glu Asp Pro Leu Leu Pro Tyr Gln Cys Gly Arg Asp Ile Ala Asp  
245 250 255

His Ile Pro Gly Ala Arg Phe Glu Leu Ile Glu Gly Met Gly His Asp  
260 265 270

Ile Pro Glu Arg His Ile Pro Arg Leu Ile Glu Leu Ile Ala Gly His  
275                    280                    285

Ala Ala Ala Ala Glu Ala  
290